

PCT/US03/08068

PCT  
REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

PCT/US 03/08068

18 MAR 2004 (1803.04)

International Application No.

PCT INTERNATIONAL  
APPLICATION RO/US

Name to receive the Office and PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum)

48619/275913

## Box No. I TITLE OF INVENTION: SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING TRANSPORT CONTAINERS

## Box No. II APPLICANT

 This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Telephone No.

Facsimile No.

Applicant's registration No. with the Office

POWERS INTERNATIONAL, INC.  
27 Catawba Street, Suite A  
Belmont, NC 28012 US

State (that is, country) of nationality: US

State (that is, country) of residence: US

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

## Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

 applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

GIERMANSKI, James R.  
508 Dogwood Lane  
Belmont, NC 28012 US

State (that is, country) of nationality: US

State (that is, country) of residence: US

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box Further applicants and/or (further) inventors are indicated on a continuation sheet.

## Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

 agent common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Telephone No. Charlotte Office (704) 444-1000

Facsimile No. Charlotte Office (704) 444-1111

Agent's registration No. with the Office

42,212

WARD, Henry B., III  
ALSTON & BIRD LLP  
Bank of America Plaza  
101 South Tryon Street, Suite 4000  
Charlotte, NC 28280-4000 US

 Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent

## Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

SMITH, Philippus Lodewyk Jacobus  
470 Milner Street  
Waterkloof SOUTH AFRICA

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality: ZA

State: (that is, country) of residence: ZA

This person is  
applicant for the  all designated States  all designated States  
purposes of:  States except the United States of America  States of America only

The United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

VAN ROOYEN, Vincent Ridardo  
168 Ruimte Road  
Wierda Park  
Centurion SOUTH AFRICA

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality: ZA

State: (that is, country) of residence: ZA

This person is  
applicant for the  all designated States  all designated States  
purposes of:  States except the United States of America  States of America only

The United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State: (that is, country) of residence:

This person is  
applicant for the  all designated States  all designated States  
purposes of:  States except the United States of America  The United States of America only  the States indicated in the Supplemental Box

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This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State: (that is, country) of residence:

This person is  
applicant for the  all designated States  all designated States  
purposes of:  States except the United States of America  The United States of America only  the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on another continuation sheet.

CONTINUATION OF BOX NO. IV

The following additional attorneys or agents, in their capacity as representatives of, ALSTON & BIRD LLP, are also appointed:

ANDERSON, J. Scott	KOSTER, Karl H.
ARROYO, Blas P.	KRON, Eric J.
ARZU, Quetia	LAWSON, Lance A.
ATKINSON, William M.	LEAK, Frank W., Jr.
BALTS, Timothy	LINKER, Raymond O., Jr.
BARNHARDT, John J., III	LIPSCOMB, Ernest B., III
BATES, Andrea E.	LUEDERS, Spencer G.
BELL, Paul B.	LUPO, Dickson M.
BLACK, C. Allen	LYN, Kevin R.
BRADLEY, Kirk T.	McCLELLAND, Todd S.
BRIENT, Scott E.	McCOY, Michael D.
BROYLES, Keith E.	McDERMOTT, Richard M.
CAGLE, Ryan	MCNIFF, Stephen
CARLIN, Gregory	MEUNIER, Andrew T.
CLAUSON, Heather L.	MORSE, Karen M.
CONNOR, Michael S.	O'BRIEN, Kevin A
COOPER, Jason P.	PARKER, Thomas
COOPER, Jeffrey	PEDIGO, Paul F.
CORNELL, David Anthony	PENDLETON, Melissa B.
COULTER, Kathryn L.	PICHÉ, Jason
CUNNINGHAM, Michelle	PLEUNE, Scott B.
CUNNINGHAM, Robert B.	PRINCE, Edward M.
EDWARDS, James C.	RANSOM, W. Kevin
ELDERKIN, Charles B.	ROBERSON, Keith
ELLSWORTH, Brian	ROSE, Bruce J.
ELSEVIER, Patrick	SARAVITZ, David
ERGENZINGER, Edward	SCOTT, Walter
FRY, John P.	SIDBURY, Benjamin F.
GALLO, Nicholas F.	SPENCE, Andrew
GEGG, Christopher	SPRUILL, W. Murray
GOSNELL, Guy R.	STRAIGHT, Robert E.
GREGG, Heather L.	STRUBY, Meredith W.
GRONHOLM, Gregory	SULLIVAN, John L., Jr.
HAYNES, John D.	TAULBEE, George M.
HENRY, Leslie T.	TESKE, David
HERNDON, J. Perry	THORNE, Leigh W.
HIGGINS, John P.	URBANAWIZ, Matthew
HILL, Donald M., Jr.	WARD, III, Henry B.
HUMPHREY, Christopher M.	WASLEFF, John A.
JONES, Larry C.	WILLIAMSON, Kelly J.
JURGOVAN, Jon M.	WILSON, J. Mark
KAHLE, Neill R., Jr.	WINBORNE, George O.
KIRK, Trent A.	WITHERSPOON, James A.
	YOUNG, Jeffrey
	YOUNG, J. Scott

All of the firm and address identified in Box No. IV.

**Box No. V DESIGNATIONS**

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regions and national patents.

However,

DE Germany is not designated for any kind of national protection  
 KR Republic of Korea is not designated for any kind of national protection  
 RU Russian Federation is not designated for any kind of national protection

(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application: * regional Office	international application: receiving Office
item (1) 20 March 2003 (20.03.03)	2003/2250	ZA		
item (2)				
item (3)				

Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

all items    item (1)    item (2)    item (3)    other, see Supplemental Box

\* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): .....

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA /EP .....

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

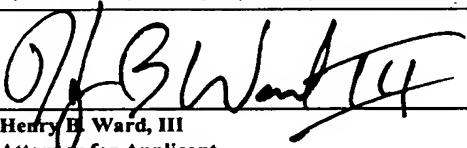
Date (day/month/year)      Number      Country (or regional Office)

**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII(i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of declarations

<input type="checkbox"/> Box No. VIII(i)	Declaration as to the identity of the inventor	:
<input type="checkbox"/> Box No. VIII(ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	:
<input type="checkbox"/> Box No. VIII(iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	:
<input type="checkbox"/> Box No. VIII(iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)	:
<input type="checkbox"/> Box No. VIII(v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	:

Box No. IX CHECK LIST; LANGUAGE OF FILING																																									
<p>This international application contains:</p> <p>(a) in paper form, the following number of sheets:</p> <table> <tr> <td>request (including declaration sheets)</td> <td>: 5</td> </tr> <tr> <td>description (excluding sequence listings and/or tables related thereto)</td> <td>: 16</td> </tr> <tr> <td>claims</td> <td>: 7</td> </tr> <tr> <td>abstract</td> <td>: 1</td> </tr> <tr> <td>drawings</td> <td>: 10</td> </tr> <tr> <td><b>Sub-total number of sheets sequence listings</b></td> <td>: 39</td> </tr> <tr> <td>tables related thereto (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below):</td> <td></td> </tr> <tr> <td><b>Total number of sheets</b></td> <td>: 39</td> </tr> </table> <p>(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))              (i) <input type="checkbox"/> sequence listings              (ii) <input type="checkbox"/> tables related thereto</p> <p>(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii))              (i) <input type="checkbox"/> sequence listings              (ii) <input type="checkbox"/> tables related thereto</p> <p>Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the  <input type="checkbox"/> sequence listings.....  <input type="checkbox"/> tables related thereto.....  <i>(additional copies to be indicated under item 9(ii) and/or 10(ii), in right column)</i></p>		request (including declaration sheets)	: 5	description (excluding sequence listings and/or tables related thereto)	: 16	claims	: 7	abstract	: 1	drawings	: 10	<b>Sub-total number of sheets sequence listings</b>	: 39	tables related thereto (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below):		<b>Total number of sheets</b>	: 39	<p>This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):</p> <table> <tr> <td>1. <input checked="" type="checkbox"/> fee calculation sheet</td> <td>: 1</td> </tr> <tr> <td>2. <input type="checkbox"/> original separate power of attorney</td> <td>:</td> </tr> <tr> <td>3. <input type="checkbox"/> original general power of attorney</td> <td>:</td> </tr> <tr> <td>4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:.....</td> <td>:</td> </tr> <tr> <td>5. <input type="checkbox"/> statement explaining lack of signature</td> <td>:</td> </tr> <tr> <td>6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s):.....</td> <td>:</td> </tr> <tr> <td>7. <input type="checkbox"/> translation of international application into (language):.....</td> <td>:</td> </tr> <tr> <td>8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material</td> <td>:</td> </tr> <tr> <td>9. <input type="checkbox"/> sequence listings in computer readable form  <i>(indicate type and number of carriers)</i> <ul style="list-style-type: none"> <li>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)</li> <li>(ii) <input type="checkbox"/> <i>(only where check-box (b)(i) or (c)(i) is marked in left column)</i> additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter</li> <li>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left column</li> </ul> </td> <td>:</td> </tr> <tr> <td>10. <input type="checkbox"/> tables in computer readable form related to sequence listings  <i>(indicate type and number of carriers)</i> <ul style="list-style-type: none"> <li>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application)</li> <li>(ii) <input type="checkbox"/> <i>(only where check-box (b)(ii) or (c)(ii) is marked in left column)</i> additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter)</li> <li>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column</li> </ul> </td> <td>:</td> </tr> <tr> <td>11. <input checked="" type="checkbox"/> other (specify): <u>Transmittal Letter and Postcard</u></td> <td>: 2</td> </tr> </table>		1. <input checked="" type="checkbox"/> fee calculation sheet	: 1	2. <input type="checkbox"/> original separate power of attorney	:	3. <input type="checkbox"/> original general power of attorney	:	4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:.....	:	5. <input type="checkbox"/> statement explaining lack of signature	:	6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s):.....	:	7. <input type="checkbox"/> translation of international application into (language):.....	:	8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material	:	9. <input type="checkbox"/> sequence listings in computer readable form <i>(indicate type and number of carriers)</i> <ul style="list-style-type: none"> <li>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)</li> <li>(ii) <input type="checkbox"/> <i>(only where check-box (b)(i) or (c)(i) is marked in left column)</i> additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter</li> <li>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left column</li> </ul>	:	10. <input type="checkbox"/> tables in computer readable form related to sequence listings <i>(indicate type and number of carriers)</i> <ul style="list-style-type: none"> <li>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application)</li> <li>(ii) <input type="checkbox"/> <i>(only where check-box (b)(ii) or (c)(ii) is marked in left column)</i> additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter)</li> <li>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column</li> </ul>	:	11. <input checked="" type="checkbox"/> other (specify): <u>Transmittal Letter and Postcard</u>	: 2
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Figure of the drawings which should accompany the abstract:	Language of filing of the international application: English																																								
<p><b>Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE</b>  <i>Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).</i></p> <p>          Henry B. Ward, III          Attorney for Applicant</p>																																									

For receiving Office use only

1. Date of actual receipt of the purported international application:	<b>DT02 Rec'd PCT/PTO 18 MAR 2004 (18.03.04)</b>		2. Drawings:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:			<input type="checkbox"/> received: <input type="checkbox"/> not received:
4. Date of timely receipt of the required corrections under PCT Article 11(2):			
5. International Searching Authority (if two or more are competent): ISA/EP	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid		

For International Bureau use only

Date of receipt of the record copy  
 by the International Bureau:

PCT/US04/000001

PCT

FEE CALCULATION SHEET  
Annex to the Request

For receiving Office use only

International Application No.

PCT/US 04/08068

Applicant's or agent's  
file reference 48619/27591318 MAR 2004 (18.03.04)  
Date stamp of the receiving Office

Applicant POWER'S INTERNATIONAL, INC.

## CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE ..... USD 300 T2. SEARCH FEE ..... 1,818 S

International search to be carried out by ISA/EP

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

## 3. INTERNATIONAL FILING FEE

Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets

Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets } 39first 30 sheets ..... 1,035 i1
$$\frac{9}{\text{number of sheets}} \times \frac{11}{\text{fee per sheet}} = \frac{99}{\text{fee per sheet}}$$
 in excess of 30

additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii):

400 X \_\_\_\_\_ = 1,134 i3  
fee per sheetAdd amounts entered at i1, i2 and i3 and enter total at I .. 1,134 I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) ..... 0 P

## 5. TOTAL FEES PAYABLE

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

3,252  
TOTAL

## MODE OF PAYMENT

Authorization to charge  postal money order  cash  coupons  
 deposit account (see below)

cheque  bank draft  revenue stamps  other (specify): \_\_\_\_\_

## AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT

(This mode of payment may not be available at all receiving Offices)

Receiving Office: US Authorization to charge the total fees indicated above.Deposit Account No. 16-0605 Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.Date: 18 March 2004 Authorization to charge the fee for priority document.Name: Henry B. Ward, IIISignature Henry B. Ward, III